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Notice of Allowability	Application No.	Applicant(s)	
	09/471,857	GU, QIZHENG	
	Examiner	Art Unit	
	Lawrence B. Williams	2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 20 August 2007.
2. ☒ The allowed claim(s) is/are 1,6-13,15-16,20-48, renumbered as 1-40.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The instant application discloses a signal reception method and apparatus for receiving a signal. A search of prior art records has failed to teach or suggest, alone or in combination, a method comprising:

“wherein said single down-converter is arranged to receive said received RF signal and simultaneously multiply said RF signal by a plurality of oscillator signals when operating in a first mode and multiply said RF signal by a single oscillator signal when operating in a second mode” along with the remaining limitations as disclosed in claim 1.

Neither does the prior art disclose:

a mobile telephone unit comprising; “a single a down-converter operatively coupled to the antenna and configured to down-convert said RF signal to form an intermediate signal, wherein said single down-converter is arranged to receive said received RF signal and simultaneously multiply said RF signal by a plurality of oscillator signals when operating in a first mode and multiply said RF signal by a single oscillator signal when operating in a second mode” along with the remaining limitations as disclosed in claim 13.

a CDMA receiver for operating in at least a first mode and a second mode, said CDMA receiver comprising:

“a single down-converter coupled to said initial RF stage and said oscillator, said down-converter for receiving said received RF signal and simultaneously multiplying said received RF signal by said plurality of oscillator signals when the receiver operates in the first mode, and

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multiplying said received RF signal by said single oscillator signal when the receiver operates in the second mode” along with the remaining limitations as disclosed in claim 20.

a base station unit comprising: “a single down-converter operatively coupled to said receiver and configured to down-convert said RF signal to form an intermediate signal, wherein said single down-converter is arranged to receive said received RF signal and simultaneously multiply said RF signal by a plurality of oscillator signals when operating in a first mode and multiply said RF signal by a single oscillator signal when operating in a second mode” along with the remaining limitations as disclosed in claim 21.

a chip apparatus comprising: “a single down-converter operatively coupled to said receiver and configured to down-convert said RF signal to form an intermediate signal, wherein said single down-converter is arranged to receive said received RF signal and simultaneously multiply said RF signal by a plurality of oscillator signals when operating in a first mode and multiply said RF signal by a single oscillator signal when operating in a second mode” along with the remaining limitations as disclosed in claim 23.

an apparatus comprising: “single means for down-converting said RF signal to form an intermediate signal, wherein said single means for down-converting is arranged to receive said received RF signal and simultaneously multiply said RF signal by a plurality of oscillator signals when operating in a first mode and multiply said RF signal by a single oscillator signal when operating in a second mode” along with the remaining limitations as disclosed in claim 25.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

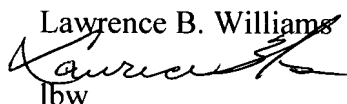
CONCLUSION

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence B Williams whose telephone number is 571-272-3037. The examiner can normally be reached on Monday-Friday (8:00-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ghayour Mohammad can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lawrence B. Williams



lbw

October 9, 2007



MOHAMMED GHAYOUR
SUPERVISORY PATENT EXAMINER